ELSEVIER

Nuclear Instruments and Methods in Physics Research A 362 (1995) 595–601

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH Section A

Author index

Ahmad, N. and Matiullah, Investigation of the recombination losses in a three-electrode cylindrical ionization chamber developed for gamma ray dosimetry of fission product activity 362 (1995) 517
Aksela, S., see Andersson, Å. 362 (1995) 586
Albergo, S., D. Boemi, Z. Caccia, S. Costa, A. Insolia, S. Panebianco, R. Potenza, N. Randazzo, S. Reito, J. Romanski, G.V. Russo and C. Tuvé, Light pulses to photomultiplier tubes from extended scintillators 362 (1995) 423
Alietti, M., C. Canali, A. Castaldini, A. Cavallini, A. Cetronio, C. Chiossi, S. D'Auria, C. del Papa, C. Lanzieri, F. Nava and P. Vanni, Performance of a new ohmic contact for GaAs particle detectors. 362 (1995) 344
Amaudruz, P.A., see Smith, G.R. 362 (1995) 349
Andersson, Å., S. Werin, T. Meinander, A. Naves de Brito and S. Aksela, Experiences with the narrow gap undulator at MAX-lab. 362 (1995) 586
Angelini, F., R. Bellazzini, M. Bozzo, A. Brez, M.M. Massai, R. Raffo, G. Spandre, M. Spezziga and A. Toropin, A large area, high gain Micro Gap Chamber. 362 (1995) 273
Anghinolfi, M., M. Ripani, M. Battaglieri, P. Corvisiero, G.L. Coscia, A. Longhi, V. Mokeev, M. Taiuti, A. Zucchiatti, N. Bianchi, A. Fantoni, P. LeviSandri, V. Lucherini, V. Muccifora, E. Polli, A.R. Reolon and P. Rossi, The response of a BGO scintillation detector to 100–500 MeV kinetic energy pions, protons and deuterons. 362 (1995) 292
Artamonov, A., V. Epstein, P. Gorbunov, V. Jemanov, V. Khovansky, S. Kruchinin, A. Maslennikov, M. Rjabinin, V. Zaitsev, S. Zeldovich, I. Zuckerman, V. Barassi, S. Buontempo, A. Ereditato, G. Fiorillo and F. Garufi, A liquid scintillator calorimeter for the forward region of an LHC experiment 362 (1995) 386

Baba, M., see Nakao, N. 362 (1995) 454
Bailey, S.H., see Feldman, W.C.. . . . . 362 (1995) 561
Barassi, V., see Artamonov, A. 362 (1995) 386
Barbiellini, G., A. Martinis and F. Scuri, A simulation study of the behaviour of fine mesh photomultipliers in magnetic field 362 (1995) 245
Barraclough, B.L., see Feldman, W.C. 362 (1995) 561
Baschirotto, A., R. Castello, A. Gola, G. Pessina, P.G. Rancoita, M. Rattaggi, M. Redaelli and A. Seidman, Radiation damage investigation for the design of a hardened fast bipolar monolithic charge sensitive preamplifier 362 (1995) 466
Battaglieri, M., see Anghinolfi, M. 362 (1995) 292
Beck, F.A., see Jones, P.M. 362 (1995) 556
Beghini, S., L. Corradi, J.H. He and A. Dal Bello, A compact parallel plate detector for heavy ion reaction studies. . . 362 (1995) 526
Bellazzini, R., see Angelini, F.. . . . . 362 (1995) 273
Ben, S., see Ichige, M. 362 (1995) 506
Bertolucci, E., M.G. Bisogni, U. Bottigli, A. Cola, M.E. Fantacci, V. Rosso, A. Stefanini and L. Vasanelli, X-ray imaging using a pixel GaAs detector 362 (1995) 547
Bianchi, N., see Anghinolfi, M. 362 (1995) 292
Bisogni, M.G., see Bertolucci, E. 362 (1995) 547
Bocci, V., see DELPHI trigger group, ... 362 (1995) 361
Boemi, D., see Albergo, S.. . . . . 362 (1995) 423
Bonutti, F., see Smith, G.R. 362 (1995) 349
Booth, P.S.L., see DELPHI trigger group, ... 362 (1995) 361
Borden, M.J., see Lu Hao-Lin, ... 362 (1995) 239
Bottigli, U., see Bertolucci, E. 362 (1995) 547
Boynton, W.V., see Feldman, W.C. 362 (1995) 561
Bozzo, M., see Angelini, F. 362 (1995) 273
Bozzo, M., see DELPHI trigger group, ... 362 (1995) 361
Brack, J.T., see Smith, G.R. 362 (1995) 349
Branco, A., see DELPHI trigger group, ... 362 (1995) 361
Breton, V., H. Fonvieille, P. Grenier, C. Guicheney, J. Jousset, Y. Roblin and F. Tamin, Application of neural networks and cellular automata to interpretation of calorimeter data 362 (1995) 478
Brez, A., see Angelini, F. 362 (1995) 273
Bruner, N.L., M.A. Frautschi, M.R. Hoeferkamp and S.C. Seidel, Characterization procedures for double-sided silicon microstrip detectors 362 (1995) 315

0168-9002/95/$09.50 © 1995 Elsevier Science B.V. All rights reserved

Budagov, J., I. Chirikov-Zorin, V. Glagolev, A. Pantea, D. Pantea and S. Tokar, Effect of nonuniformity on the energy resolution of EM sampling calorimeters . . . 362 (1995) 395
Buontempo, S., see Artamonov, A. . . . 362 (1995) 386
Butler, P.A., see Jones, P.M. . . . 362 (1995) 556
Buytaert, J., see DELPHI trigger group, . . . 362 (1995) 361
Byrd, R.C., see Feldman, W.C. . . . 362 (1995) 561
Byrski, T., see Jones, P.M. . . . 362 (1995) 556

Caccia, Z., see Albergo, S. . . . 362 (1995) 423
Cairanti, S., see DELPHI trigger group, . . . 362 (1995) 361
Camerini, P., see Smith, G.R. . . . 362 (1995) 349
Canale, V., see DELPHI trigger group, . . . 362 (1995) 361
Canali, C., see Alietti, M. . . . 362 (1995) 344
Carniel, R., see DELPHI trigger group, . . . 362 (1995) 361
Castaldini, A., see Alietti, M. . . . 362 (1995) 344
Castello, R., see Baschirotto, A. . . . 362 (1995) 466
Cavallini, A., see Alietti, M. . . . 362 (1995) 344
Cerrito, L., see DELPHI trigger group, . . . 362 (1995) 361
Cetronio, A., see Alietti, M. . . . 362 (1995) 344
Charpentier, Ph., see DELPHI trigger group, . . . 362 (1995) 361
Chiossi, C., see Alietti, M. . . . 362 (1995) 344
Chirikov-Zorin, I., see Budagov, J. . . . 362 (1995) 395
Cola, A., see Bertolucci, E. . . . 362 (1995) 547
Corradi, L., see Beghini, S. . . . 362 (1995) 526
Corvisiero, P., see Anghinolfi, M. . . . 362 (1995) 292
Coscia, G.L., see Anghinolfi, M. . . . 362 (1995) 292
Costa, S., see Albergo, S. . . . 362 (1995) 423
Crawford, H.J., see Ichige, M. . . . 362 (1995) 506
Cussans, D.G. and H.F. Heath, Optimization of the pulse arrival time determination in the ZEUS central tracking detector FADC system . . . 362 (1995) 277
Cuttone, G., see Finocchiaro, P. . . . 362 (1995) 472

D'Agostini, G., A multidimensional unfolding method based on Bayes' theorem . . . 362 (1995) 487
Dal Bello, A., see Beghini, S. . . . 362 (1995) 526
D'Auria, S., see Alietti, M. . . . 362 (1995) 344
Debbe, R., S. Gushue, B. Moskowitz, J. Norris, J. Olness and F. Videbæk, In-beam tests of a ring imaging Cherenkov detector with a multianode photomultiplier readout . . . 362 (1995) 253
De Blois, J., see de Haan, V.-O. . . . 362 (1995) 434
De France, G., see Jones, P.M. . . . 362 (1995) 556
De Haan, V.-O., J. de Blois, P. van der Ende, H. Fredrikze, A. van der Graaf, M.N. Schipper, A.A. van Well and J. van der Zanden, ROG, the neutron reflectometer at IRI, Delft . . . 362 (1995) 434
Del Papa, C., see Alietti, M. . . . 362 (1995) 344
DELPHI trigger group, V. Bocci, P.S.L. Booth, M. Bozzo, A. Branco, J. Buytaert, S. Cairanti, V. Canale, R. Carniel, L. Cerrito, Ph. Charpentier, M. Donszelmann, F. Formenti, J. Fuster, C. Gaspar, Ph. Gavillet, P. Giacomelli, F. Harris, S.-O. Holmgren, E. Johansson, M. Jonker, C. Lacasta, L. Lanceri, G. Matthiae, V. Perrera, S. Quinton, B. Schulze, D. Treille, G. Valenti and J. Valls, Architecture and performance of the DELPHI trigger system. . . . 362 (1995) 361
Doke, T., see Ichige, M. . . . 362 (1995) 506
Donszelmann, M., see DELPHI trigger group, . . . 362 (1995) 361
Duchêne, G., see Jones, P.M. . . . 362 (1995) 556

Ejiri, H., see Nagata, K. . . . 362 (1995) 261
Engelage, J.M., see Ichige, M. . . . 362 (1995) 506
Epstein, V., see Artamonov, A. . . . 362 (1995) 386
Ereditato, A., see Artamonov, A. . . . 362 (1995) 386
Eremin, V. and Z. Li, Carrier drift mobility study in neutron irradiated high purity silicon . . . 362 (1995) 338

Fantacci, M.E., see Bertolucci, E. . . . 362 (1995) 547
Fantoni, A., see Anghinolfi, M. . . . 362 (1995) 292
Felawka, L., see Smith, G.R. . . . 362 (1995) 349
Feldman, W.C., R.C. Byrd, B.L. Barraclough, J.E. Nordholt, H.O. Funsten, W.V. Boynton, S.H. Bailey and J. Moersch, Calibration of a space thermal/epithermal neutron detector: The Mars Observer Gamma-Ray Spectrometer anticoincidence shield . . . 362 (1995) 561

Finocchiaro, P., G. Cuttone and A. Rovelli, A digital trigger for heavy-ion experiments at LNS 362 (1995) 472
Fiorillo, G., see Artamonov, A. 362 (1995) 386
Flores, I., see Ichige, M. 362 (1995) 506
Fonvieille, H., see Breton, V. 362 (1995) 478
Formenti, F., see DELPHI trigger group, ... 362 (1995) 361
Frautschi, M.A., see Bruner, N.L. 362 (1995) 315
Fredrikze, H., see de Haan, V.-O. 362 (1995) 434
Fuchi, Y., see Tanaka, M.H. 362 (1995) 521
Funsten, H.O., see Feldman, W.C. 362 (1995) 561
Fuster, J., see DELPHI trigger group, ... 362 (1995) 361

Garufi, F., see Artamonov, A. 362 (1995) 386
Gaspar, C., see DELPHI trigger group, ... 362 (1995) 361
Gavillet, Ph., see DELPHI trigger group, ... 362 (1995) 361
Giacomelli, P., see DELPHI trigger group, ... 362 (1995) 361
Gibson, E.F., see Smith, G.R. 362 (1995) 349
Glagolev, V., see Budagov, J. 362 (1995) 395
Gola, A., see Baschirotto, A. 362 (1995) 466
Golovkin, S.V., A.A. Konstantinchenko, V.A. Kozlov, A.E. Kushnirenko, A.I. Pyshchev, V.M. Shershukov, V.G. Vasil'chenko and K.V. Zimyn, Radiation damage studies on new liquid scintillators and liquid-core scintillating fibers 362 (1995) 283
Gorbunov, P., see Artamonov, A. 362 (1995) 386
Gorelov, A., see Smith, G.R. 362 (1995) 349
Greiner, L., see Ichige, M. 362 (1995) 506
Grenacs, L., see Proykova, A. 362 (1995) 234
Grenier, P., see Breton, V. 362 (1995) 478
Grion, N., see Smith, G.R. 362 (1995) 349
Guicheney, C., see Breton, V. 362 (1995) 478
Gushue, S., see Debbe, R. 362 (1995) 253

Hannachi, F., see Jones, P.M. 362 (1995) 556
Harris, F., see DELPHI trigger group, ... 362 (1995) 361
Hayashi, K., see Nagata, K. 362 (1995) 261
Hayashi, T., see Ichige, M. 362 (1995) 506
He, J.H., see Beghini, S. 362 (1995) 526
Heath, H.F., see Cussans, D.G. 362 (1995) 277
Henderson, R.A., see Smith, G.R. 362 (1995) 349
Hoeferkamp, M.R., see Bruner, N.L. 362 (1995) 315
Hoey, J., see Smith, G.R. 362 (1995) 349
Hofman, G., see Smith, G.R. 362 (1995) 349
Holland, A.D., see McCarthy, K.J. 362 (1995) 538
Holmgren, S.-O., see DELPHI trigger group, ... 362 (1995) 361
Hsu, H.-H., see Talbert, W.L. 362 (1995) 229

Ichige, M., S. Ben, H.J. Crawford, T. Doke, J.M. Engelage, I. Flores, L. Greiner, T. Hayashi, T. Kashiwagi, J. Kikuchi, M. Kobayashi, K. Masuda, A. Mozumder, J.W. Mitchell, E. Shibamura, T. Takashima and C.E. Tull, Analysis of data obtained with Au ions of 700 MeV/n energy in an allene-doped liquid Ar homogeneous calorimeter 362 (1995) 506
Ichihara, T., see Tanaka, M.H. 362 (1995) 521
Insolia, A., see Albergo, S. 362 (1995) 423
Ito, S., see Saito, T. 362 (1995) 224
Itoh, H., see Saito, T. 362 (1995) 224

Jemanov, V., see Artamonov, A. 362 (1995) 386
Johansson, E., see DELPHI trigger group, ... 362 (1995) 361
Jones, G.D., see Jones, P.M. 362 (1995) 556
Jones, P.M., L. Wei, F.A. Beck, P.A. Butler, T. Byrski, G. Duchêne, G. de France, F. Hannachi, G.D. Jones and B. Kharraja, Calibration of the new composite "clover" detector as a Compton polarimeter for the EUROGAM array 362 (1995) 556
Jonker, M., see DELPHI trigger group, ... 362 (1995) 361
Jousset, J., see Breton, V. 362 (1995) 478

Kashiwagi, T., see Ichige, M. 362 (1995) 506
Kawashima, H., see Tanaka, M.H. 362 (1995) 521
Kermani, M., see Smith, G.R. 362 (1995) 349
Kharraja, B., see Jones, P.M. 362 (1995) 556
Khovansky, V., see Artamonov, A. 362 (1995) 386
Kikuchi, J., see Ichige, M. 362 (1995) 506
Kobayashi, M., see Ichige, M. 362 (1995) 506
Konno, O., see Saito, T. 362 (1995) 224
Konstantinchenko, A.A., see Golovkin, S.V. 362 (1995) 283
Kotov, Yu.D., see Lu, Z. 362 (1995) 551
Kozlov, V.A., see Golovkin, S.V. 362 (1995) 283
Kruchinin, S., see Artamonov, A. 362 (1995) 386
Kubono, S., see Tanaka, M.H. 362 (1995) 521
Kushnir, V.I., see Quintana, J.P. 362 (1995) 592
Kushnirenko, A.E., see Golovkin, S.V. 362 (1995) 283

Lacasta, C., see DELPHI trigger group, ... 362 (1995) 361
Lanceri, L., see DELPHI trigger group, ... 362 (1995) 361
Lanzieri, C., see Alietti, M. 362 (1995) 344
Lassila-Perini, K. and L. Urbán, Energy loss in thin layers in GEANT 362 (1995) 416
LeviSandri, P., see Anghinolfi, M. 362 (1995) 292
Li, T., see Lu, Z. 362 (1995) 551
Li, Y., see Lu, Z. 362 (1995) 551
Li, Z., see Eremin, V. 362 (1995) 338
Lin, B., see Lu, Z. 362 (1995) 551
Liu, B., see Lu, Z. 362 (1995) 551
Lone, M.A. and P.Y. Wong, Neutron yields from proton-induced spallation reactions in thick targets of lead 362 (1995) 499
Longhi, A., see Anghinolfi, M. 362 (1995) 292
Lu, Z., J. Wang, Y. Li, P. Shen, Z. Zhu, J. Yang, H. Yang, B. Lin, X. Zhang, B. Liu, C. Zhang, M. Wu, T. Li, R. Staubert, Yu.D. Kotov and A.Yu. Suslov, Hard X-ray imaging with a slat collimated telescope 362 (1995) 551
Lucherini, V., see Anghinolfi, M. 362 (1995) 292
Lu Hao-Lin, W.F. Sommer and M.J. Borden, Review of carbon stripper foil lifetime 362 (1995) 239

Maas, D., see Smith, G.R. 362 (1995) 349
Martinis, A., see Barbiellini, G. 362 (1995) 245
Maslennikov, A., see Artamonov, A. 362 (1995) 386
Massai, M.M., see Angelini, F. 362 (1995) 273
Masuda, K., see Ichige, M. 362 (1995) 506
Mathie, E.L., see Smith, G.R. 362 (1995) 349
Matiullah, see Ahmad, N. 362 (1995) 517
Matthiae, G., see DELPHI trigger group, ... 362 (1995) 361
McCarthy, K.J., A. Owens, A.D. Holland and A.A. Wells, Modelling the X-ray response of charge coupled devices . . 362 (1995) 538
McFarland, S., see Smith, G.R. 362 (1995) 349
Meier, R., see Smith, G.R. 362 (1995) 349
Meinander, T., see Andersson, Å. 362 (1995) 586
Mitchell, J.W., see Ichige, M. 362 (1995) 506
Miyahara, Y., Jump-over method of the FEL interaction among electron beam bunches for increasing the radiation power 362 (1995) 581
Moersch, J., see Feldman, W.C. 362 (1995) 561
Mokeev, V., see Anghinolfi, M. 362 (1995) 292
Moskowitz, B., see Debbe, R. 362 (1995) 253
Mozumder, A., see Ichige, M. 362 (1995) 506
Muccifora, V., see Anghinolfi, M. 362 (1995) 292
Mutoh, M., see Saito, T. 362 (1995) 224

Nagata, K., H. Ejiri, K. Hayashi, T. Shima and J. Tanaka, Development of a thin drift chamber for the double beta decay experiment 362 (1995) 261
Nakamura, T., see Nakao, N. 362 (1995) 454
Nakanishi, N., see Nakao, N. 362 (1995) 454
Nakao, N., T. Nakamura, M. Baba, Y. Uwamino, N. Nakanishi, H. Nakashima and S.-i. Tanaka, Measurements of response function of organic liquid scintillator for neutron energy range up to 135 MeV 362 (1995) 454

Nakashima, H., see Nakao, N. 362 (1995) 454
Nava, F., see Alietti, M. 362 (1995) 344
Naves de Brito, A., see Andersson, Å. 362 (1995) 586
Nordholt, J.E., see Feldman, W.C. 362 (1995) 561
Norris, J., see Debbe, R. 362 (1995) 253

Oikawa, M., see Saito, T. 362 (1995) 224
Olness, J., see Debbe, R. 362 (1995) 253
Ottewell, D.F., see Smith, G.R. 362 (1995) 349
Owens, A., see McCarthy, K.J. 362 (1995) 538

Panebianco, S., see Albergo, S. 362 (1995) 423
Pantea, A., see Budagov, J. 362 (1995) 395
Pantea, D., see Budagov, J. 362 (1995) 395
Perrera, V., see DELPHI trigger group, ... 362 (1995) 361
Pessina, G., see Baschirotto, A. 362 (1995) 466
Polli, E., see Anghinolfi, M. 362 (1995) 292
Popov, G.E., V.N. Prusakov, A.I. Rudnev, A.V. Tikhomirov and A.V. Voronin, Centrifugal enrichment of chromium-50 for experiments on detecting solar neutrinos 362 (1995) 532
Potenza, R., see Albergo, S. 362 (1995) 423
Prokoshkin, Yu.D. and A.V. Shtannikov, Energy resolution calculation of the PWO calorimeter, comparison with the beam tests 362 (1995) 406
Proykova, A. and L. Grenacs, Optimization of the recoil-direction-sensitive target for muon capture 362 (1995) 234
Prusakov, V.N., see Popov, G.E. 362 (1995) 532
Pyshchev, A.I., see Golovkin, S.V. 362 (1995) 283

Quintana, J.P., V.I. Kushnir and G. Rosenbaum, Synchrotron experimental results on an unribbed sagittally focussing crystal monochromator 362 (1995) 592
Quinton, S., see DELPHI trigger group, ... 362 (1995) 361

Raffo, R., see Angelini, F. 362 (1995) 273
Rancoita, P.G., see Baschirotto, A. 362 (1995) 466
Randazzo, N., see Albergo, S. 362 (1995) 423
Rattaggi, M., see Baschirotto, A. 362 (1995) 466
Raywood, K., see Smith, G.R. 362 (1995) 349
Redaelli, M., see Baschirotto, A. 362 (1995) 466
Reeve, P., see Smith, G.R. 362 (1995) 349
Reito, S., see Albergo, S. 362 (1995) 423
Reolon, A.R., see Anghinolfi, M. 362 (1995) 292
Ripani, M., see Anghinolfi, M. 362 (1995) 292
Ristinen, R.A., see Smith, G.R. 362 (1995) 349
Rjabinin, M., see Artamonov, A. 362 (1995) 386
Roblin, Y., see Breton, V. 362 (1995) 478
Romanski, J., see Albergo, S. 362 (1995) 423
Rosenbaum, G., see Quintana, J.P. 362 (1995) 592
Rossi, P., see Anghinolfi, M. 362 (1995) 292
Rosso, V., see Bertolucci, E. 362 (1995) 547
Rovelli, A., see Finocchiaro, P. 362 (1995) 472
Rudnev, A.I., see Popov, G.E. 362 (1995) 532
Rui, R., see Smith, G.R. 362 (1995) 349
Russo, G.V., see Albergo, S. 362 (1995) 423

Saito, T., T. Terasawa, O. Konno, S. Ito, H. Itoh, M. Oikawa, Y. Suga, M. Mutoh, T. Tamae, M. Sugawara and D. Sims, An electron-beam transport system for parasitic experiments 362 (1995) 224
Saldin, E.L., V.P. Sarantsev, E.A. Schneidmiller, S.S. Shimanskii, Yu.N. Ulyanov and M.V. Yurkov, On a possibility of constructing a high-intensity, monochromatic, polarized gamma source at PETRA 362 (1995) 574
Sarantsev, V.P., see Saldin, E.L. 362 (1995) 574
Schipper, M.N., see de Haan, V.-O. 362 (1995) 434
Schneidmiller, E.A., see Saldin, E.L. 362 (1995) 574
Schulze, B., see DELPHI trigger group, ... 362 (1995) 361

Scuri, F., see Barbiellini, G. 362 (1995) 245
Seidel, S.C., see Bruner, N.L. 362 (1995) 315
Seidman, A., see Baschirotto, A. 362 (1995) 466
Sevior, M.E., see Smith, G.R. 362 (1995) 349
Shen, P., see Lu, Z. 362 (1995) 551
Shershukov, V.M., see Golovkin, S.V. 362 (1995) 283
Shibamura, E., see Ichige, M. 362 (1995) 506
Shima, T., see Nagata, K. 362 (1995) 261
Shimanskii, S.S., see Saldin, E.L. 362 (1995) 574
Shtannikov, A.V., see Prokoshkin, Yu.D. 362 (1995) 406
Sims, D., see Saito, T. 362 (1995) 224
Smith, G.R., P.A. Amaudruz, J.T. Brack, L. Felawka, A. Gorelov, R.A. Henderson, D.F. Ottewell, P. Vincent, Y. Wu, F. Bonutti, P. Camerini, N. Grion, R. Rui, J. Hoey, G. Hofman, M. Kermani, D. Maas, S. McFarland, K. Raywood, M.E. Sevior, E.L. Mathie, R. Tacik, P. Reeve, R.A. Ristinen, E.F. Gibson, R. Meier and H.M. Staudenmaier, The CHAOS spectrometer for pion physics at TRIUMF 362 (1995) 349
Sommer, W.F., see Lu Hao-Lin, ... 362 (1995) 239
Spandre, G., see Angelini, F. 362 (1995) 273
Spezziga, M., see Angelini, F. 362 (1995) 273
Staubert, R., see Lu, Z. 362 (1995) 551
Staudenmaier, H.M., see Smith, G.R. 362 (1995) 349
Stefanini, A., see Bertolucci, E. 362 (1995) 547
Suga, Y., see Saito, T. 362 (1995) 224
Sugawara, M., see Saito, T. 362 (1995) 224
Suslov, A.Yu., see Lu, Z. 362 (1995) 551

Tacik, R., see Smith, G.R. 362 (1995) 349
Taiuti, M., see Anghinolfi, M. 362 (1995) 292
Takaku, S., see Tanaka, M.H. 362 (1995) 521
Takashima, T., see Ichige, M. 362 (1995) 506
Talbert, W.L. and H.-H. Hsu, Target interaction lengths for cylindrical targets used in production of radioactive beams by high-energy protons 362 (1995) 229
Tamae, T., see Saito, T. 362 (1995) 224
Tamin, F., see Breton, V. 362 (1995) 478
Tanaka, J., see Nagata, K. 362 (1995) 261
Tanaka, M.H., Y. Fuchi, S. Kubono, T. Ichihara, H. Kawashima and S. Takaku, High resolution and two-dimensional focal plane detector for intermediate energy heavy ions 362 (1995) 521
Tanaka, S.-i., see Nakao, N. 362 (1995) 454
Terasawa, T., see Saito, T. 362 (1995) 224
Tikhomirov, A.V., see Popov, G.E. 362 (1995) 532
Tokar, S., see Budagov, J. 362 (1995) 395
Toropin, A., see Angelini, F. 362 (1995) 273
Treille, D., see DELPHI trigger group, ... 362 (1995) 361
Tull, C.E., see Ichige, M. 362 (1995) 506
Tuvé, C., see Albergo, S. 362 (1995) 423
Tymieniecka, T., Compensating calorimeters with inorganic active media for improved electron detection 362 (1995) 410

Ulyanov, Yu.N., see Saldin, E.L. 362 (1995) 574
Urbán, L., see Lassila-Perini, K. 362 (1995) 416
Uwamino, Y., see Nakao, N. 362 (1995) 454

Valenti, G., see DELPHI trigger group, ... 362 (1995) 361
Valls, J., see DELPHI trigger group, ... 362 (1995) 361
Van der Ende, P., see de Haan, V.-O. 362 (1995) 434
Van der Graaf, A., see de Haan, V.-O. 362 (1995) 434
Van der Zanden, J., see de Haan, V.-O. 362 (1995) 434
Van Ginneken, A., Fluctuations of muon energy loss and simulation of ionization cooling 362 (1995) 213
Vanni, P., see Alietti, M. 362 (1995) 344
Van Well, A.A., see de Haan, V.-O. 362 (1995) 434
Vasanelli, L., see Bertolucci, E. 362 (1995) 547
Vasil'chenko, V.G., see Golovkin, S.V. 362 (1995) 283

Videbæk, F., see Debbe, R. 362 (1995) 253
Vincent, P., see Smith, G.R. 362 (1995) 349
Voronin, A.V., see Popov, G.E. 362 (1995) 532

Wang, J., see Lu, Z. 362 (1995) 551
Wei, L., see Jones, P.M. 362 (1995) 556
Wells, A.A., see McCarthy, K.J. 362 (1995) 538
Werin, S., see Andersson, Å. 362 (1995) 586
Wong, P.Y., see Lone, M.A. 362 (1995) 499
Wu, M., see Lu, Z. 362 (1995) 551
Wu, Y., see Smith, G.R. 362 (1995) 349

Yang, H., see Lu, Z. 362 (1995) 551
Yang, J., see Lu, Z. 362 (1995) 551
Yurkov, M.V., see Saldin, E.L. 362 (1995) 574

Zaitsev, V., see Artamonov, A. 362 (1995) 386
Zeldovich, S., see Artamonov, A. 362 (1995) 386
Zhang, C., see Lu, Z. 362 (1995) 551
Zhang, X., see Lu, Z. 362 (1995) 551
Zhu, Z., see Lu, Z. 362 (1995) 551
Zimyn, K.V., see Golovkin, S.V. 362 (1995) 283
Zucchiatti, A., see Anghinolfi, M. 362 (1995) 292
Zuckerman, I., see Artamonov, A. 362 (1995) 386

ELSEVIER

Nuclear Instruments and Methods in Physics Research A 362 (1995) 602–605

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH Section A

Subject index

Accelerators, Beam Handling and Targets

Proceedings of the 17th World Conference of the International Nuclear Target Development Society (Bloomington, Indiana, USA, October 17–21, 1994)

Section I. Internal targets

Internal targets – a review, C. Ekström 1
First internal and external experiments at COSY Juelich, D. Prasuhn, R. Maier, U. Bechstedt, J. Dietrich, U. Hacker, S. Martin, H. Stockhorst, R. Tölle, D. Grzonka, C. Nake and F. Mosel 16
Development of internal jet targets for high-luminosity experiments, J.E. Doskow and F. Sperisen 20
Supersonic gas jets as internal targets at NIKHEF, T. Botto, M. Bouwhuis, D. Dimitroyannis, M. Doets, C.W. de Jager, R.L.J. van der Meer, M. Scharloo, H. de Vries, B.E. Norum and T.P. Welch 26
An internal polarized ^{3}He target for electron storage rings, L.H. Kramer, D. DeSchepper, R.G. Milner, S.F. Pate and T. Shin 32
Polarized internal gas target for hydrogen and deuterium at the IUCF Cooler Ring, W.A. Dezarn, J. Doskow, J.G. Hardie, H.O. Meyer, R.E. Pollock, B. von Przewoski, T. Rinckel, F. Sperisen, W. Haeberli, B. Lorentz, F. Rathmann, M.A. Ross, T. Wise and P.V. Pancella 36
Vacuum injection of hydrogen micro-sphere beams, B. Trostell 41

Section II. Target and stripper foil preparations

Self-supporting isotopic Ge targets, A. Méens and G. Ehret 53
Calcium targets with low hydrogen content, G. Dollinger, T. Faestermann, C.M. Frey and P. Maier-Komor 60
Developments of ^{170}Er, ^{204,206,207,208}Pb and ^{209}Bi target wheels for reaction studies and synthesis of heaviest elements, H. Folger, W. Hartmann, F.P. Heßberger, S. Hofmann, J. Klemm, G. Münzenberg, V. Ninov, W. Thalheimer and P. Armbruster 64
Development of thick, long-lived carbon stripper foils for PSR of LANL, I. Sugai, M. Oyaizu, H. Kawakami, C. Ohmori, T. Hattori, K. Kawasaki, M.J. Borden and R.J. Macek 70
Preparation and application of ultra-thin superstrong diamond-like carbon targets for laboratory and space experiments, T.M. Ivkova, V.K. Liechtenstein and E.D. Olshanski 77
Targets for the APEX experiment at ATLAS, J.P. Greene, G.E. Thomas and R.H. Leonard 81
The high power target system for SISSI, an intense source of secondary ions, E. Baron, J. Gillet and M. Ozille 90
Isotopically enriched rolled Cr foils, G. Manente and D. Blunt 94
Preparation of ^{152}Gd targets from a small quantity of gadolinium oxide in a pyrochemical reaction, A.R. Lipski 98
Preparation of actinide targets by radio-frequency sputtering, L.V. Drapchinsky and V.I. Shpakov 100

Section III. Target investigations and characterizations

Improvements in the preparation and areal characterisation of ^{10}B and ^{6}LiF reference deposits, J. Pauwels, R.D. Scott, R. Eykens, P. Robouch, J. Van Gestel, J. Verdonck, D.M. Gilliam and G. Greene 104
Characterization of density and metal content in low density foam targets for inertial confinement fusion, N.E. Elliott and M.A. Mitchell 112
Note on the variation of isotope abundance ratios of metallic lithium during the vacuum evaporation–condensation process, N. Shinohara and K. Okamoto 114
A resistance ratio method for alloy homogeneity control, C.D. Ingelbrecht 117
Target structure and in-beam electron spectra, J.S. Dionisio, R. Meunier, C. Schück, Ch. Vieu, J.M. Lagrange, M. Pautrat, J.C.S. Bacelar, J.R. Jongman, W.R. Phillips, J.L. Durell, W. Urban, B.J. Varley and H. Folger 122
Absolute target thicknesses for calibration of accelerator experiments, P. Maier-Komor 139
Tracing and elimination of process-induced contaminations in sputter-deposited targets by elastic recoil detection analysis, W. Assmann and H.J. Maier 143

0168-9002/95/$05.50 © 1995 – Elsevier Science B.V. All rights reserved

The characterization of ^{10}B and ^{6}LiF reference deposits by measurement of neutron-induced charged particle reactions – a second campaign, R.D. Scott, P. D'hondt, R. Eykens, P. Robouch, D.F.G. Reher, G. Sibbens, J. Pauwels and D.M. Gilliam 151
Radiation stability of thin targets in a high intensity particle accelerator environment, S.G. Lebedev 160

Section IV. Preparations and applications of thin films

Targets for laser-driven opacity measurements, P.L. Gobby, H. Bush, V.A. Gurule, V.M. Gomez, J.E. Moore and B.F. Henneke 163
Casting thin films of cellulose nitrate, polycarbonate, and polypropylene, J.O. Stoner, Jr. 167
New aspects of thin polyimide foils, R. Eykens, P. Maier-Komor, J. Van Gestel and J. Pauwels 175
On the performance of optical filters for the XMM focal plane CCD-camera EPIC, K.-H. Stephan, C. Reppin, H.J. Maier, D. Frischke, D. Fuchs, P. Müller, S. Moeller and P. Gürtler 178
Preparation of reflective CsI photocathodes with reproducible high quantum efficiency, P. Maier-Komor, B.B. Bauer, J. Friese, R. Gernhäuser, P. Kienle, H.J. Körner, G. Montermann and K. Zeitelhack 183
Thin Teflon film walls for a polarized-gas target cell, W.R. Lozowski, J. Hudson and W.A. Dezarn 189

Section V. Activity reports of laboratories

Status of stable isotope enrichment and services at the Oak Ridge National Laboratory, W.S. Aaron and J.G. Tracy . . 194
Report of activities in the Target Preparation Laboratory at the Weizmann Institute of Science, L. Sapir 198
Description of the Argonne National Laboratory target making facility, G.E. Thomas and J.P. Greene. 201

Section VI. Equipment of target preparation and use

In-vacuum target transfer facility, D. Kabiraj, S. Mandal and D.K. Avasthi 205
Completion of the plant for laser plasma ablation–deposition of carbon, P. Maier-Komor, G. Dollinger, C.M. Frey and H.J. Körner 208

Fluctuations of muon energy loss and simulation of ionization cooling, A. Van Ginneken 213
An electron-beam transport system for parasitic experiments, T. Saito, T. Terasawa, O. Konno, S. Ito, H. Itoh, M. Oikawa, Y. Suga, M. Mutoh, T. Tamae, M. Sugawara and D. Sims 224
Target interaction lengths for cylindrical targets used in production of radioactive beams by high-energy protons, W.L. Talbert and H.-H. Hsu 229
Optimization of the recoil-direction-sensitive target for muon capture, A. Proykova and L. Grenacs 234
Review of carbon stripper foil lifetime, Lu Hao-Lin, W.F. Sommer and M.J. Borden 239

High Energy Physics Detectors

A simulation study of the behaviour of fine mesh photomultipliers in magnetic field, G. Barbiellini, A. Martinis and F. Scuri 245
In-beam tests of a ring imaging Cherenkov detector with a multianode photomultiplier readout, R. Debbe, S. Gushue, B. Moskowitz, J. Norris, J. Olness and F. Videbæk 253
Development of a thin drift chamber for the double beta decay experiment, K. Nagata, H. Ejiri, K. Hayashi, T. Shima and J. Tanaka 261
A large area, high gain Micro Gap Chamber, F. Angelini, R. Bellazzini, M. Bozzo, A. Brez, M.M. Massai, R. Raffo, G. Spandre, M. Spezziga and A. Toropin 273
Optimization of the pulse arrival time determination in the ZEUS central tracking detector FADC system, D.G. Cussans and H.F. Heath 277
Radiation damage studies on new liquid scintillators and liquid-core scintillating fibers, S.V. Golovkin, A.A. Konstantinchenko, V.A. Kozlov, A.E. Kushnirenko, A.I. Pyshchev, V.M. Shershukov, V.G. Vasil'chenko and K.V. Zimyn 283
The response of a BGO scintillation detector to 100–500 MeV kinetic energy pions, protons and deuterons, M. Anghinolfi, M. Ripani, M. Battaglieri, P. Corvisiero, G.L. Coscia, A. Longhi, V. Mokeev, M. Taiuti, A. Zucchiatti, N. Bianchi, A. Fantoni, P. LeviSandri, V. Lucherini, V. Muccifora, E. Polli, A.R. Reolon and P. Rossi . 292
Radiation damage studies of field plate and p-stop n-side silicon microstrip detectors, RD20 Collaboration 297
Characterization procedures for double-sided silicon microstrip detectors, N.L. Bruner, M.A. Frautschi, M.R. Hoeferkamp and S.C. Seidel 315
Carrier drift mobility study in neutron irradiated high purity silicon, V. Eremin and Z. Li 338
Performance of a new ohmic contact for GaAs particle detectors, M. Alietti, C. Canali, A. Castaldini, A. Cavallini, A. Cetronio, C. Chiossi, S. D'Auria, C. del Papa, C. Lanzieri, F. Nava and P. Vanni 344

High Energy Physics Systems

The CHAOS spectrometer for pion physics at TRIUMF, G.R. Smith, P.A. Amaudruz, J.T. Brack, L. Felawka, A. Gorelov, R.A. Henderson, D.F. Ottewell, P. Vincent, Y. Wu, F. Bonutti, P. Camerini, N. Grion, R. Rui, J. Hoey, G. Hofman, M. Kermani, D. Maas, S. McFarland, K. Raywood, M.E. Sevior, E.L. Mathie, R. Tacik, P. Reeve, R.A. Ristinen, E.F. Gibson, R. Meier and H.M. Staudenmaier 349
Architecture and performance of the DELPHI trigger system, DELPHI trigger group 361
A liquid scintillator calorimeter for the forward region of an LHC experiment, A. Artamonov, V. Epstein, P. Gorbunov, V. Jemanov, V. Khovansky, S. Kruchinin, A. Maslennikov, M. Rjabinin, V. Zaitsev, S. Zeldovich, I. Zuckerman, V. Barassi, S. Buontempo, A. Ereditato, G. Fiorillo and F. Garufi 386
Effect of nonuniformity on the energy resolution of EM sampling calorimeters, J. Budagov, I. Chirikov-Zorin, V. Glagolev, A. Pantea, D. Pantea and S. Tokar 395
Energy resolution calculation of the PWO calorimeter, comparison with the beam tests, Yu.D. Prokoshkin and A.V. Shtannikov 406
Compensating calorimeters with inorganic active media for improved electron detection, T. Tymieniecka. 410
Energy loss in thin layers in GEANT, K. Lassila-Perini and L. Urbán 416

Instruments and Methods for Nuclear Spectroscopy

Light pulses to photomultiplier tubes from extended scintillators, S. Albergo, D. Boemi, Z. Caccia, S. Costa, A. Insolia, S. Panebianco, R. Potenza, N. Randazzo, S. Reito, J. Romanski, G.V. Russo and C. Tuvé. 423

Neutron Physics

ROG, the neutron reflectometer at IRI, Delft, V.-O. de Haan, J. de Blois, P. van der Ende, H. Fredrikze, A. van der Graaf, M.N. Schipper, A.A. van Well and J. van der Zanden 434
Measurements of response function of organic liquid scintillator for neutron energy range up to 135 MeV, N. Nakao, T. Nakamura, M. Baba, Y. Uwamino, N. Nakanishi, H. Nakashima and S.-i. Tanaka. 454

Electronics

Radiation damage investigation for the design of a hardened fast bipolar monolithic charge sensitive preamplifier, A. Baschirotto, R. Castello, A. Gola, G. Pessina, P.G. Rancoita, M. Rattaggi, M. Redaelli and A. Seidman 466
A digital trigger for heavy-ion experiments at LNS, P. Finocchiaro, G. Cuttone and A. Rovelli 472

Numerical and Data Analysis

Application of neural networks and cellular automata to interpretation of calorimeter data, V. Breton, H. Fonvieille, P. Grenier, C. Guicheney, J. Jousset, Y. Roblin and F. Tamin. 478
A multidimensional unfolding method based on Bayes' theorem, G. D'Agostini 487

Fission, Fusion, Spallation and Heavy Ions

Neutron yields from proton-induced spallation reactions in thick targets of lead, M.A. Lone and P.Y. Wong 499
Analysis of data obtained with Au ions of 700 MeV/n energy in an allene-doped liquid Ar homogeneous calorimeter, M. Ichige, S. Ben, H.J. Crawford, T. Doke, J.M. Engelage, I. Flores, L. Greiner, T. Hayashi, T. Kashiwagi, J. Kikuchi, M. Kobayashi, K. Masuda, A. Mozumder, J.W. Mitchell, E. Shibamura, T. Takashima and C.E. Tull . . . 506
Investigation of the recombination losses in a three-electrode cylindrical ionization chamber developed for gamma ray dosimetry of fission product activity, N. Ahmad and Matiullah 517
High resolution and two-dimensional focal plane detector for intermediate energy heavy ions, M.H. Tanaka, Y. Fuchi, S. Kubono, T. Ichihara, H. Kawashima and S. Takaku 521
A compact parallel plate detector for heavy ion reaction studies, S. Beghini, L. Corradi, J.H. He and A. Dal Bello . . . 526

Dosimetry, Space Radiation and Medical Applications

Centrifugal enrichment of chromium-50 for experiments on detecting solar neutrinos, G.E. Popov, V.N. Prusakov, A.I. Rudnev, A.V. Tikhomirov and A.V. Voronin 532
Modelling the X-ray response of charge coupled devices, K.J. McCarthy, A. Owens, A.D. Holland and A.A. Wells 538
X-ray imaging using a pixel GaAs detector, E. Bertolucci, M.G. Bisogni, U. Bottigli, A. Cola, M.E. Fantacci, V. Rosso, A. Stefanini and L. Vasanelli 547
Hard X-ray imaging with a slat collimated telescope, Z. Lu, J. Wang, Y. Li, P. Shen, Z. Zhu, J. Yang, H. Yang, B. Lin, X. Zhang, B. Liu, C. Zhang, M. Wu, T. Li, R. Staubert, Yu.D. Kotov and A.Yu. Suslov 551
Calibration of the new composite ''clover'' detector as a Compton polarimeter for the EUROGAM array, P.M. Jones, L. Wei, F.A. Beck, P.A. Butler, T. Byrski, G. Duchêne, G. de France, F. Hannachi, G.D. Jones and B. Kharraja . . 556

Synchrotron Radiation Research

Calibration of a space thermal/epithermal neutron detector: The Mars Observer Gamma-Ray Spectrometer anticoincidence shield, W.C. Feldman, R.C. Byrd, B.L. Barraclough, J.E. Nordholt, H.O. Funsten, W.V. Boynton, S.H. Bailey and J. Moersch 561
On a possibility of constructing a high-intensity, monochromatic, polarized gamma source at PETRA, E.L. Saldin, V.P. Sarantsev, E.A. Schneidmiller, S.S. Shimanskii, Yu.N. Ulyanov and M.V. Yurkov 574
Jump-over method of the FEL interaction among electron beam bunches for increasing the radiation power, Y. Miyahara 581
Experiences with the narrow gap undulator at MAX-lab, Å. Andersson, S. Werin, T. Meinander, A. Naves de Brito and S. Aksela 586
Synchrotron experimental results on an unribbed sagittally focussing crystal monochromator, J.P. Quintana, V.I. Kushnir and G. Rosenbaum 592